

ABSTRACT

The invention relates to a drive unit for a vehicle and an electric motor that is suitable therefore, comprising a rotor and a stator (1) which is formed by a sheet metal pack (2) and is provided with grooves, at least one winding (3a) being disposed in said grooves (3). The electric motor is penetrated by cooling air. In order to keep production costs low and obtain thermal class 200, the winding (3a) is formed from round wires (7) that are provided with an insulation (12) while the coil heads (4) are embedded in a temperature-resistant elastic material (4a) so as to be protected against external influences.